

INTERNATIONAL SEARCH REPORT

International Application No.
PCT/EP2004/007323

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 A01N43/08 A01N43/10 A01N43/40 A01N43/54 A01N43/56
A01N43/58 A01N43/60 A01N43/76 A01N43/78 C07D213/61
C07D401/12 C07D417/12 C07D405/12 C07D411/12 C07D409/12

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A01N C07D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data, EMBASE, BIOSIS, CHEM ABS Data, BEILSTEIN Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	PATENT ABSTRACTS OF JAPAN vol. 1996, no. 08, 30 August 1996 (1996-08-30) -& JP 08 092223 A (MITSUI TOATSU CHEM INC), 9 April 1996 (1996-04-09) cited in the application last paragraph in column 6 abstract; claims; table 1	1-16
Y	WO 01/53259 A (WALTER HARALD ; SYNGENTA PARTICIPATIONS AG (CH); SCHNEIDER HERMANN (DE) 26 July 2001 (2001-07-26) cited in the application page 97 - page 100; claim 2; examples 1.41-1.56, 1.100-1.117, 1.161-1.178, 1.233-1. 254; table 1	1-21

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- *Z* document member of the same patent family

Date of the actual completion of the international search

12 November 2004

Date of mailing of the international search report

28. 02. 2005

Name and mailing address of the ISA

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 95/09846 A (DU PONT ; DENES LUCIAN RADU (US)) 13 April 1995 (1995-04-13) cited in the application	1-16
Y	page 30, line 23; example 48; table 1 page 17; line 22; claims 4,6-10	17-21
Y	WO 96/16954 A (AGREVO UK LTD ; RIORDAN PETER DOMINIC (GB); WEST PETER JOHN (GB); BODD) 6 June 1996 (1996-06-06) claim 1; examples 22,23,26,27,33,35,42	1-21
Y	EP 0 545 099 A (BASF AG) 9 June 1993 (1993-06-09) cited in the application page 4, line 1 - line 16; claim 1 page 2, line 1 - line 27 page 52	1-21
Y	WO 93/11117 A (MONSANTO CO) 10 June 1993 (1993-06-10) cited in the application claim 1	1-16

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Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
Although claims 13 and 14 have been drafted such that they may also embrace a method of treatment of the human or animal body, the search has been carried out and based on the alleged anti-microbiological effects of the compound.
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
1-15 (part)

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-15

A is a 5-membered heteroaromatic ring with 2 heteroatoms in 1,2 position

2. claims: 1-15

A is a 5-membered heteroaromatic ring with 2 heteroatoms in 1,3 position

3. claims: 1-15

A is a 5-membered heteroaromatic ring with 1 heteroatom

4. claims: 1-15

A is a benzene ring

5. claims: 1-15

A is a 6-membered heteroaromatic ring with 1 heteroatom

6. claims: 1-15

A is a 6-membered heteroaromatic ring with 2 heteroatoms

7. claims: 1-15

A is a 6-membered partially unsaturated heterocyclic ring

8. claims: 1-15

A is a 5-membered partially unsaturated heterocyclic ring

9. claims: 16-21

intermediates of the general formula III

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
JP 08092223	A	09-04-1996	NONE	
WO 0153259	A	26-07-2001	AU 772635 B2 AU 3543301 A BR 0107738 A CA 2397008 A1 CN 1427823 T CZ 20022496 A3 WO 0153259 A1 EP 1252140 A1 HU 0203960 A2 JP 2003520269 T PL 357312 A1 US 2004049035 A1 US 2004106521 A1 ZA 200205641 A	06-05-2004 31-07-2001 22-10-2002 26-07-2001 02-07-2003 16-10-2002 26-07-2001 30-10-2002 28-03-2003 02-07-2003 26-07-2004 11-03-2004 03-06-2004 03-11-2003
WO 9509846	A	13-04-1995	AU 7834494 A CA 2173326 A1 EP 0722441 A1 WO 9509846 A1 US 5631206 A	01-05-1995 13-04-1995 24-07-1996 13-04-1995 20-05-1997
WO 9616954	A	06-06-1996	AU 4302896 A WO 9616954 A1 EP 0794950 A1 ZA 9510223 A	19-06-1996 06-06-1996 17-09-1997 29-07-1996
EP 0545099	A	09-06-1993	AT 149487 T AU 656243 B2 AU 2855492 A CA 2081935 A1 CZ 9203448 A3 CZ 289478 B6 DE 59208113 D1 DK 545099 T3 EP 0545099 A2 ES 2098421 T3 GR 3023336 T3 HU 62861 A2 IL 103614 A JP 3202079 B2 JP 5221994 A JP 2001253802 A JP 2001316210 A KR 267518 B1 NZ 245194 A PL 296677 A1 SK 344892 A3 US 5480897 A US 5556988 A US 5589493 A US 5330995 A ZA 9208977 A	15-03-1997 27-01-1995 27-05-1993 23-05-1993 13-10-1993 16-01-2002 10-04-1997 24-03-1997 09-06-1993 01-05-1997 29-08-1997 28-06-1993 24-09-1998 27-08-2001 31-08-1993 18-09-2001 13-11-2001 16-10-2000 27-02-1996 18-10-1993 08-03-1995 02-01-1996 17-09-1996 31-12-1996 19-07-1994 19-05-1994
WO 9311117	A	10-06-1993	US 5223526 A AR 248397 A1 AT 149490 T	29-06-1993 18-08-1995 15-03-1997

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2004/007323

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 9311117	A	AU 657598 B2	16-03-1995
		AU 3240793 A	28-06-1993
		BR 9206869 A	28-11-1995
		CA 2123122 A1	10-06-1993
		CZ 9401260 A3	15-02-1995
		DE 69217997 D1	10-04-1997
		DE 69217997 T2	04-09-1997
		EP 0623113 A1	09-11-1994
		HU 67795 A2	28-04-1995
		JP 7501549 T	16-02-1995
		LT 234 A	15-06-1994
		MD 940085 A	30-06-1995
		MX 9207038 A1	01-06-1993
		NZ 246269 A	26-07-1995
		SI 9200352 A	30-06-1993
		SK 67894 A3	08-02-1995
		TR 26592 A	15-03-1995
		WO 9311117 A1	10-06-1993
		ZA 9209441 A	25-08-1993
		ZW 18792 A1	12-05-1993
		CN 1078234 A	10-11-1993